

Validation report

DAS-ELISA MiLBVV

Article No.: 161677 (MiLBVV Complete kit 96) / 161675 (MiLBVV Complete kit 480) / 161672 (MiLBVV Complete kit 960)

General information:

Target Pathogen	MiLBVV (Mirafiori lettuce big-vein virus / Ophiovirus mirafioriense)
Genus	<i>Ophiovirus</i>
Method	DAS-ELISA

Technical information:

Antibodies	Polyclonal antibodies developed against the I-47 MiLBVV isolate from Italy.
Sampling	Leaf samples: 1:10 (w/v) in extraction buffer "general".
Controls	Negative control (NC): lyophilized extracts from healthy plants Positive control (PC): lyophilized MiLBVV infected plant extracts
Working volume	200 µl / well

Host matrix:

Tested plant material	Leaf
Tested species infected	<i>Lactuca sativa</i> (Lettuce) <i>Nicotiana Benthamiana</i> (Tobacco)

Specificity:

Analytical Specificity	100%
Number of tested samples from target organism (True Positives)	7
Diagnostic Specificity	100%
Number of tested samples non-target organism (True Negatives)	18
Detected isolates / geographic regions (Inclusivity)	MiLBVV 1269 (Switzerland, Tobacco) MiLBVV 230503 (Italy, Lettuce) MiLBVV 211106 (Switzerland, Tobacco) MiLBVV 260523 (Switzerland, Lettuce)
Cross reaction with (Exclusivity)	-
No cross reaction tested with (Exclusivity)	GLRaV-2 (Grapevine leafroll-associated virus 2) GPGV (Grapevine pinot gris virus) MCMV (Maize chlorotic mottle virus) SCMV (Sugarcane mosaic virus) SMV (Soybean mosaic virus)
No matrix effect observed with (Selectivity)	<i>Chenopodium quinoa</i> (Quinoa) <i>Lactuca sativa</i> (Lettuce) <i>Nicotiana Benthamiana</i> (Tobacco) <i>Nicotiana Clevelandii</i> (Tobacco)

Sensitivity:

Diagnostic Sensitivity	100%
Analytical Sensitivity / LoD	10 ⁻³ dilution of infected tissue (pathogen titer unknown).
Sensitivity on host matrix	MiLBVV on leaves of lettuce: 1:1'250 dilution MiLBVV on leaves of tobacco: 1:1'250 dilution Pathogen titer unknown
Other sensitivity characteristics	-

Validation:

Internal validation	2003
External validation	-
Reproducibility	100%
Repeatability	100%
Validation information	Internally, the reagents have been validated with the BIOREBA isolate collection, composed of various samples with diverse plant host range, collected within the last 40 years.

Validation release Date:
May 27th, 2026

QC manager:



Version: 1 – 27.05.2026.